

Marine power station

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Inventor(s): MOORE ANTHONY (GB)
Applicant(s): MOORE ANTHONY (GB)
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Abstract

A marine power station comprises a single vertically-oriented bottle-shaped tower 1 and incorporates a water turbine 2 housed in a tunnel 3 close to its gravity base 4 and a darrieus wind turbine aero-generator 7 mounted on a platform 8 on a tubular mast 10. The water turbine is protected by meshes 17 and 18 and rotatable shutter doors (20 Fig 2) and (21) mounted on a ring frame (19). The power station is installed as one structure by tug assisted float-out or in sections by crane barge at a near-shore site following construction at a nearby onshore base and is settled by water jet 6 soil liquifaction. Multi-plex two-way signal conductors in the core of the power cable enable remote monitoring and control.

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